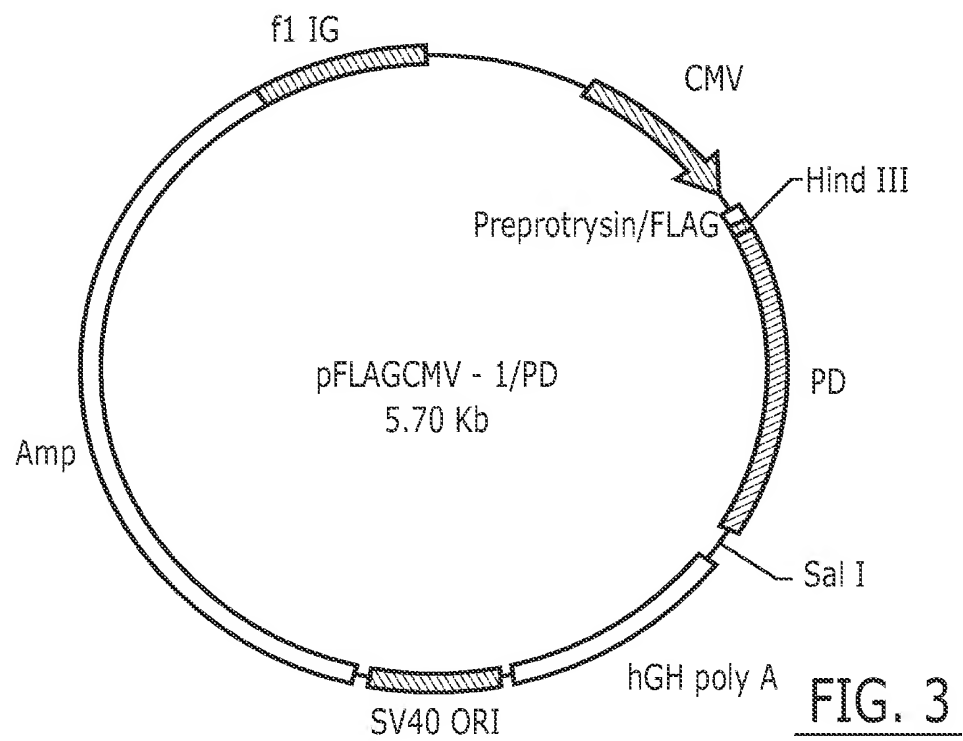
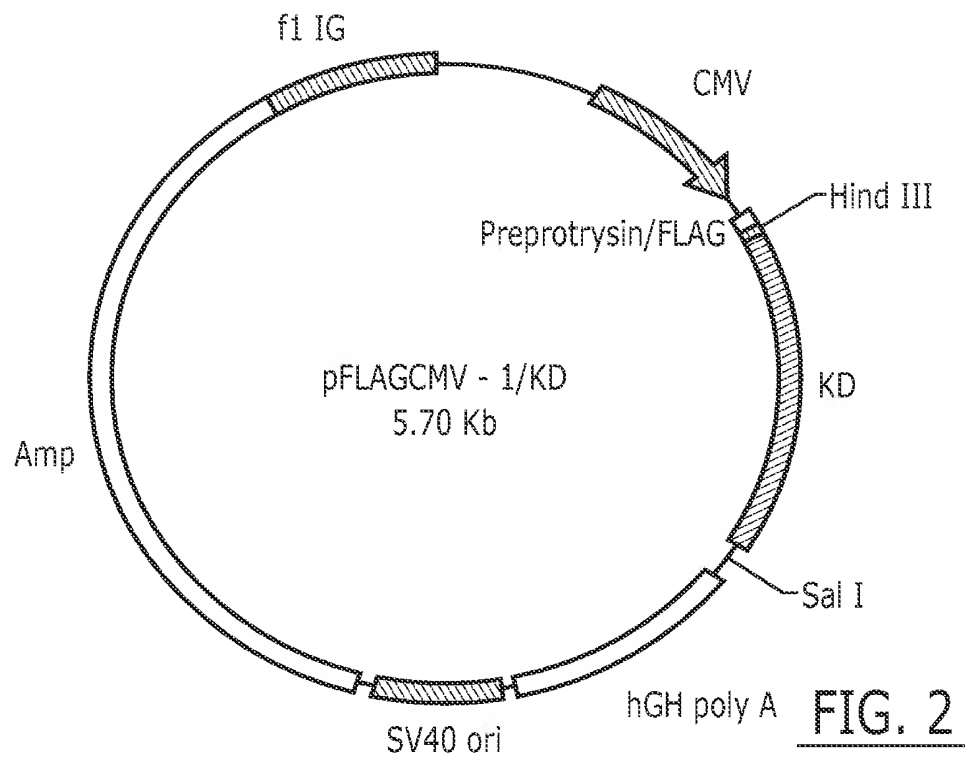


FIG. 1



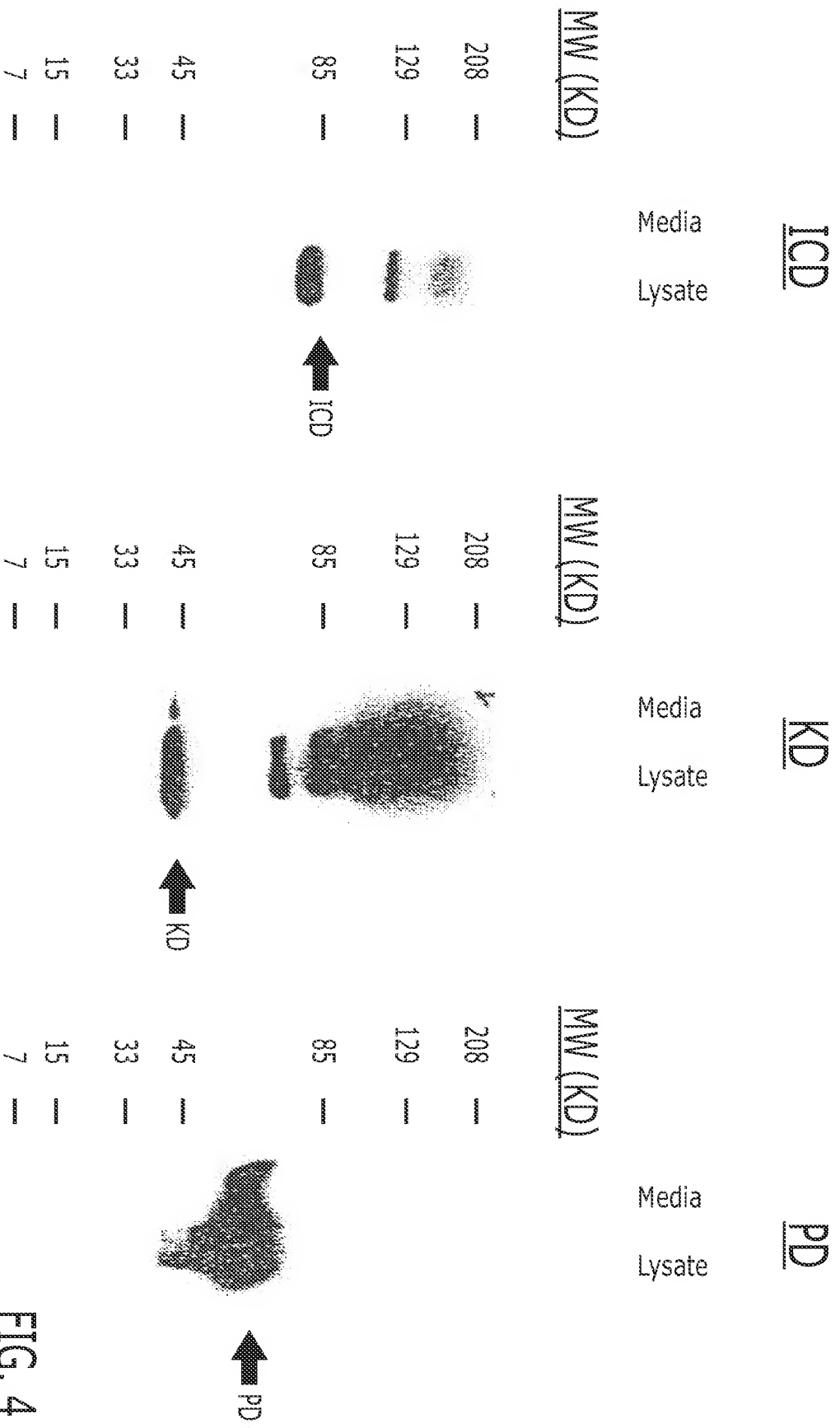


FIG. 4

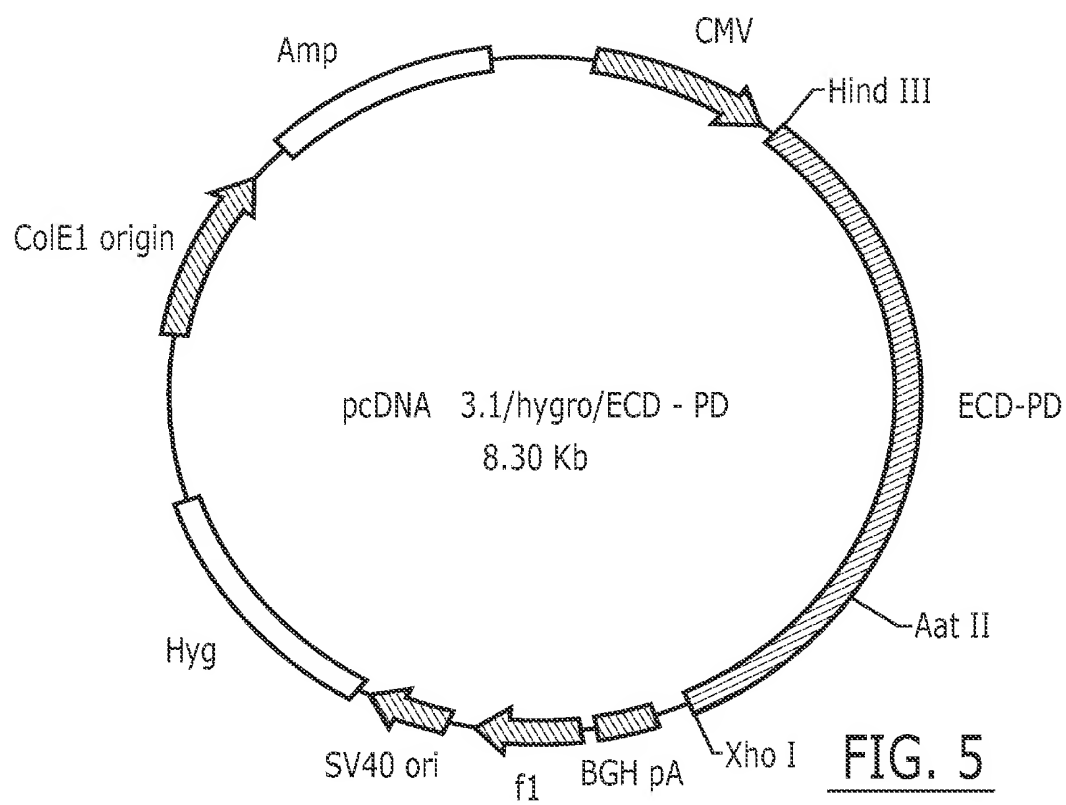


FIG. 5

pcDNS3.1hyg/ECD-PD expression

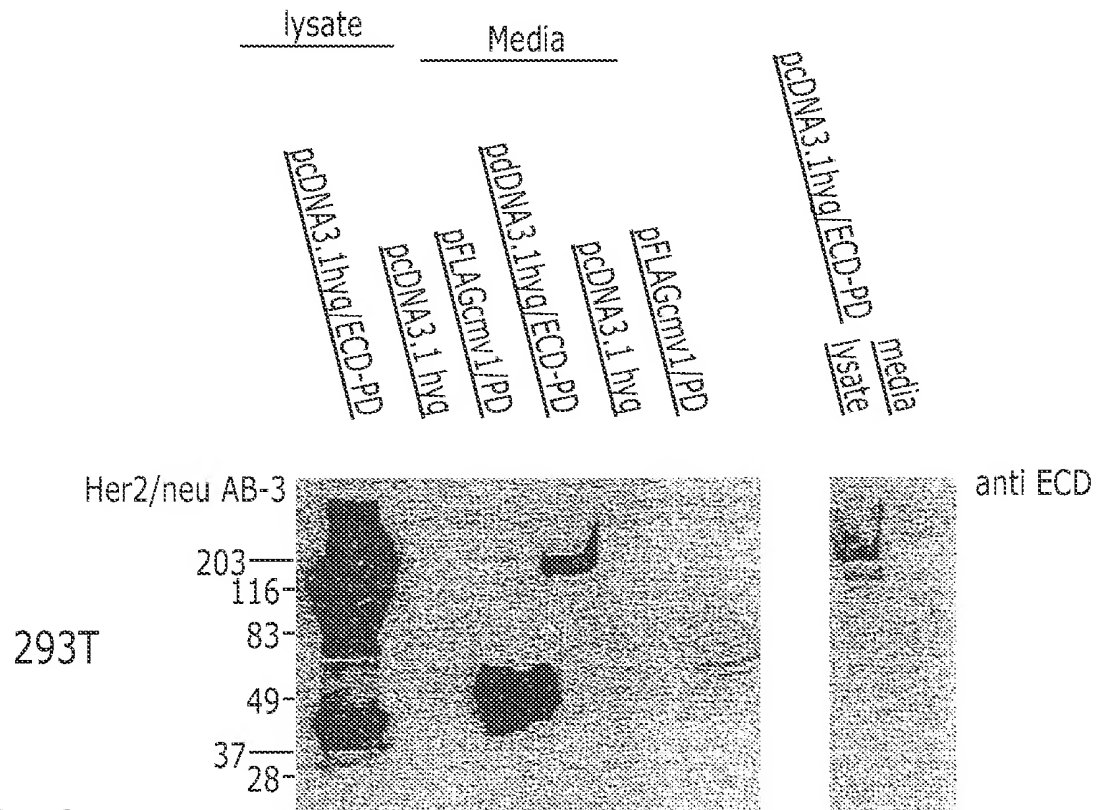


FIG. 6A

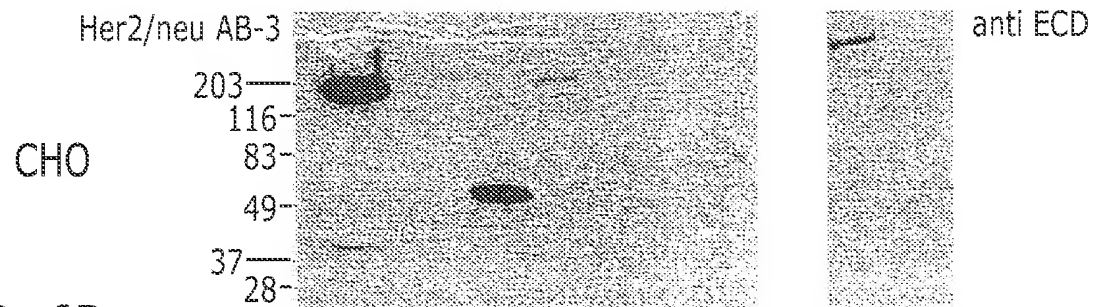


FIG. 6B

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Fig. 7a (SEQ ID NO:1)

Met	Glu	Leu	Ala	Ala	Leu	Cys	Arg	Trp	Gly	Leu	Leu	Leu	Ala	Leu	Leu	Pro	Pro	Gly	Ala	20
Ala	Ser	Thr	Gln	Val	Cys	Thr	Gly	Thr	Asp	Met	Lys	Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	40
Thr	His	Leu	Asp	Met	Leu	Arg	His	Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	60
Glu	Leu	Thr	Tyr	Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile	Gln	Glu	Val	80
Gln	Gly	Tyr	Val	Leu	Ile	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu	Gln	Arg	Leu	Arg	100
Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu	Asp	Asn	Tyr	Ala	Leu	Ala	Val	Leu	Asp	Asn	Gly	120
Asp	Pro	Leu	Asn	Asn	Thr	Thr	Pro	Val	Thr	Gly	Ala	Ser	Pro	Gly	Gly	Leu	Arg	Glu	Leu	140
Gln	Leu	Arg	Ser	Leu	Thr	Glu	Ile	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln	160
Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn	Asn	Gln	Leu	Ala	180
Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys	His	Pro	Cys	Ser	Pro	Met	Cys	Lys	200
Gly	Ser	Arg	Cys	Trp	Gly	Glu	Ser	Ser	Glu	Asp	Cys	Gln	Ser	Leu	Thr	Arg	Thr	Val	Cys	220
Ala	Gly	Gly	Cys	Ala	Arg	Cys	Lys	Gly	Pro	Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln	Cys	240
Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys	Leu	His	Phe	Asn	His	260
Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu	Val	Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	280
Ser	Met	Pro	Asn	Pro	Glu	Gly	Arg	Tyr	Thr	Phe	Gly	Ala	Ser	Cys	Val	Thr	Ala	Cys	Pro	300
Tyr	Asn	Tyr	Leu	Ser	Thr	Asp	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys	Pro	Leu	His	Asn	Gln	320
Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys	Cys	Ser	Lys	Pro	Cys	Ala	Arg	340
Val	Cys	Tyr	Gly	Leu	Gly	Met	Glu	His	Leu	Arg	Glu	Val	Arg	Ala	Val	Thr	Ser	Ala	Asn	360
Ile	Gln	Glu	Phe	Ala	Gly	Cys	Lys	Lys	Ile	Phe	Gly	Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	380
Phe	Asp	Gly	Asp	Pro	Ala	Ser	Asn	Thr	Ala	Pro	Leu	Gln	Pro	Glu	Gln	Leu	Gln	Val	Phe	400
Glu	Thr	Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu	Tyr	Ile	Ser	Ala	Trp	Pro	Asp	Ser	Leu	Pro	420
Asp	Leu	Ser	Val	Phe	Gln	Asn	Leu	Gln	Val	Ile	Arg	Gly	Arg	Ile	Leu	His	Asn	Gly	Ala	440
Tyr	Ser	Leu	Thr	Leu	Gln	Gly	Leu	Gly	Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	460
Leu	Gly	Ser	Gly	Leu	Ala	Leu	Ile	His	His	Asn	Thr	His	Leu	Cys	Phe	Val	His	Thr	Val	480
Pro	Trp	Asp	Gln	Leu	Phe	Arg	Asn	Pro	His	Gln	Ala	Leu	Leu	His	Thr	Ala	Asn	Arg	Pro	500
Glu	Asp	Glu	Cys	Val	Gly	Glu	Gly	Leu	Ala	Cys	His	Gln	Leu	Cys	Ala	Arg	Gly	His	Cys	520
Trp	Gly	Pro	Gly	Pro	Thr	Gln	Cys	Val	Asn	Cys	Ser	Gln	Phe	Leu	Arg	Gly	Gln	Glu	Cys	540
Val	Glu	Glu	Cys	Arg	Val	Leu	Gln	Gly	Leu	Pro	Arg	Glu	Tyr	Val	Asn	Ala	Arg	His	Cys	560
Leu	Pro	Cys	His	Pro	Glu	Cys	Gln	Pro	Gln	Asn	Gly	Ser	Val	Thr	Cys	Phe	Gly	Pro	Glu	580
Ala	Asp	Gln	Cys	Val	Ala	Cys	Ala	His	Tyr	Lys	Asp	Pro	Pro	Phe	Cys	Val	Ala	Arg	Cys	600
Pro	Ser	Gly	Val	Lys	Pro	Asp	Leu	Ser	Tyr	Met	Pro	Ile	Trp	Lys	Phe	Pro	Asp	Glu	Glu	620
Gly	Ala	Cys	Gln	Pro	Cys	Pro	Ile	Asn	Cys	Thr	His	Ser	Cys	Val	Asp	Leu	Asp	Asp	Lys	640
Gly	Cys	Pro	Ala	Glu	Gln	Arg	Ala	Ser	Pro	Leu	Thr	Ser	Ile	Ile	Ser	Ala	Val	Val	Gly	660
Ile	Leu	Leu	Val	Val	Val	Leu	Gly	Val	Val	Phe	Gly	Ile	Leu	Ile	Lys	Arg	Arg	Gln	Gln	680
Lys	Ile	Arg	Lys	Tyr	Thr	Met	Arg	Arg	Leu	Leu	Gln	Glu	Thr	Glu	Leu	Val	Glu	Pro	Leu	700
Thr	Pro	Ser	Gly	Ala	Met	Pro	Asn	Gln	Ala	Gln	Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu	720
Arg	Lys	Val	Lys	Val	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys	Gly	Ile	Trp	Ile	740
Pro	Asp	Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile	Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	760
Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	780
Tyr	Val	Ser	Arg	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser	Thr	Val	Gln	Leu	Val	Thr	Gln	Leu	800

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Fig. 7b (SEQ ID NO:1)

Met	Pro	Tyr	Gly	Cys	Leu	Leu	Asp	His	Val	Arg	Glu	Asn	Arg	Gly	Arg	Leu	Gly	Ser	Gln	820
Asp	Leu	Leu	Asn	Trp	Cys	Met	Gln	Ile	Ala	Lys	Gly	Met	Ser	Tyr	Leu	Glu	Asp	Val	Arg	840
Leu	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Lys	Ser	Pro	Asn	His	Val	Lys	860
Ile	Thr	Asp	Phe	Gly	Leu	Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp	880
Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg	Arg	Arg	Phe	Thr	900
His	Gln	Ser	Asp	Val	Trp	Ser	Tyr	Gly	Val	Thr	Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	920
Lys	Pro	Tyr	Asp	Gly	Ile	Pro	Ala	Arg	Glu	Ile	Pro	Asp	Leu	Leu	Glu	Lys	Gly	Glu	Arg	940
Leu	Pro	Gln	Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	Met	960
Ile	Asp	Ser	Glu	Cys	Arg	Pro	Arg	Phe	Arg	Glu	Leu	Val	Ser	Glu	Phe	Ser	Arg	Met	Ala	980
Arg	Asp	Pro	Gln	Arg	Phe	Val	Val	Ile	Gln	Asn	Glu	Asp	Leu	Gly	Pro	Ala	Ser	Pro	Leu	1000
Asp	Ser	Thr	Phe	Tyr	Arg	Ser	Leu	Leu	Glu	Asp	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp	Ala	1020
Glu	Glu	Tyr	Leu	Val	Pro	Gln	Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	Ala	Gly	1040
Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Ser	Thr	Arg	Ser	Gly	Gly	Gly	Asp	Leu	Thr	1060
Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	Glu	Ala	Pro	Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	1080
Ala	Gly	Ser	Asp	Val	Phe	Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	Gln	Ser	1100
Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	Glu	Asp	Pro	Thr	Val	Pro	Leu	1120
Pro	Ser	Glu	Thr	Asp	Gly	Tyr	Val	Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu	Tyr	Val	1140
Asn	Gln	Pro	Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Glu	Gly	Pro	Leu	Pro	Ala	Ala	1160
Arg	Pro	Ala	Gly	Ala	Thr	Leu	Glu	Arg	Pro	Lys	Thr	Leu	Ser	Pro	Gly	Lys	Asn	Gly	Val	1180
Val	Lys	Asp	Val	Phe	Ala	Phe	Gly	Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Thr	Pro	Gln	1200
Gly	Gly	Ala	Ala	Pro	Gln	Pro	His	Pro	Pro	Pro	Ala	Phe	Ser	Pro	Ala	Phe	Asp	Asn	Leu	1220
Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala	Pro	Pro	Ser	Thr	Phe	Lys	Gly	Thr	1240
Pro	Thr	Ala	Glu	Asn	Pro	Glu	Tyr	Leu	Gly	Leu	Asp	Val	Pro	Val	.	.				1257

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 8a (SEQ ID NO: 2)

Met Glu Leu Ala Ala Trp Cys Arg Trp Gly Phe Leu Leu Ala Leu Leu Pro Pro Gly Ile	20
Ala Gly Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu	40
Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu	60
Glu Leu Thr Tyr Val Pro Ala Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	80
Gln Gly Tyr Met Leu Ile Ala His Asn Gln Val Lys Arg Val Pro Leu Gln Arg Leu Arg	100
Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Lys Tyr Ala Leu Ala Val Leu Asp Asn Arg	120
Asp Pro Gln Asp Asn Val Ala Ala Ser Thr Pro Gly Arg Thr Pro Glu Gly Leu Arg Glu	140
Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Arg Gly Asn Pro	160
Gln Leu Cys Tyr Gln Asp Met Val Leu Trp Lys Asp Val Phe Arg Lys Asn Asn Gln Leu	180
Ala Pro Val Asp Ile Asp Thr Asn Arg Ser Arg Ala Cys Pro Pro Cys Ala Pro Ala Cys	200
Lys Asp Asn His Cys Trp Gly Glu Ser Pro Glu Asp Cys Gln Ile Leu Thr Gly Thr Ile	220
Cys Thr Ser Gly Cys Ala Arg Cys Lys Gly Arg Leu Pro Thr Asp Cys Cys His Glu Gln	240
Cys Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn	260
His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe	280
Glu Ser Met His Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Thr Cys	300
Pro Tyr Asn Tyr Leu Ser Thr Glu Val Gly Ser Cys Thr Leu Val Cys Pro Pro Asn Asn	320
Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala	340
Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Gly Ala Arg Ala Ile Thr Ser Asp	360
Asn Val Gln Glu Phe Asp Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu	380
Ser Phe Asp Gly Asp Pro Ser Ser Gly Ile Ala Pro Leu Arg Pro Glu Gln Leu Gln Val	400
Phe Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu	420
Arg Asp Leu Ser Val Phe Gln Asn Leu Arg Ile Ile Arg Gly Arg Ile Leu His Asp Gly	440
Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile His Ser Leu Gly Leu Arg Ser Leu Arg	460
Glu Leu Gly Ser Gly Leu Ala Leu Ile His Arg Asn Ala His Leu Cys Phe Val His Thr	480
Val Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Ser Gly Asn Arg	500
Pro Glu Glu Asp Cys Gly Leu Glu Gly Leu Val Cys Asn Ser Leu Cys Ala His Gly His	520
Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser His Phe Leu Arg Gly Gln Glu	540
Cys Val Glu Glu Cys Arg Val Trp Lys Gly Leu Pro Arg Glu Tyr Val Ser Asp Lys Arg	560
Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Ser Ser Glu Thr Cys Phe Gly Ser	580
Glu Ala Asp Gln Cys Ala Ala Cys Ala His Tyr Lys Asp Ser Ser Ser Cys Val Ala Arg	600
Cys Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Tyr Pro Asp Glu	620
Glu Gly Ile Cys Gln Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Glu	640
Arg Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Val Thr Phe Ile Ile Ala Thr Val Val	660
Gly Val Leu Leu Phe Leu Ile Leu Val Val Val Val Gly Ile Leu Ile Lys Arg Arg Arg	680
Gln Lys Ile Arg Lys Tyr Thr Met Arg Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro	700
Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala Gln Met Arg Ile Leu Lys Glu Thr Glu	720
Leu Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys Gly Ile Trp	740
Ile Pro Asp Gly Glu Asn Val Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu Asn Thr	760
Ser Pro Lys Ala Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser	780
Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln	800

Attorney Docket No. CRX113US

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 9 (SEQ ID NO: 3)

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala	20
Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu	40
Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu	60
Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	80
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg	100
Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly	120
Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu	140
Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln	160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala	180
Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro Met Cys Lys	200
Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys	220
Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys	240
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His	260
Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu	280
Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro	300
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln	320
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg	340
Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn	360
Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser	380
Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe	400
Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro	420
Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn Gly Ala	440
Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu	460
Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val	480
Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro	500
Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly His Cys	520
Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys	540
Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys	560
Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu	580
Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys	600
Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu	620
Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys	640
Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser 653	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 10 (SEQ ID NO: 4)

Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu	20
Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly	40
Phe Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly Met Val His His Arg His Arg Ser	60
Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu	80
Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp	100
Leu Gly Met Gly Ala Ala Lys Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu	120
Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val Ala	140
Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro Asp Val Arg Pro Gln Pro	160
Pro Ser Pro Arg Glu Gly Pro Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg	180
Pro Lys Thr Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly	200
Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala Ala Pro Gln Pro His Pro	220
Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu	240
Arg Gly Ala Pro Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu	260
Gly Leu Asp Val Pro Val . 267	

Figure 11 (SEQ ID NO: 5)

Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu	20
Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly	40
Phe Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly Met Val His His Arg His Arg .	60

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 12 (SEQ ID NO: 6)

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala	20
Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu	40
Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu	60
Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	80
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg	100
Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly	120
Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu	140
Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln	160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala	180
Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro Met Cys Lys	200
Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys	220
Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys	240
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His	260
Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu	280
Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro	300
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln	320
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg	340
Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn	360
Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser	380
Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe	400
Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro	420
Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn Gly Ala	440
Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu	460
Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val	480
Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro	500
Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly His Cys	520
Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys	540
Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys	560
Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu	580
Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys	600
Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu	620
Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys	640
Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser Gln Asn Glu Asp Leu Gly Pro	660
Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp	680
Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala	700
Pro Gly Ala Gly Gly Met Val His His Arg His Arg Ser Ser Ser Thr Arg Ser Gly Gly	720
Gly Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala	740
Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys	760
Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr Ser Glu Asp Pro	780
Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln	800
Pro Glu Tyr Val Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro	820
Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Pro Lys Thr Leu Ser Pro Gly	840
Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly Ala Val Glu Asn Pro Glu Tyr	860
Leu Thr Pro Gln Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala	880
Phe Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser Thr	900
Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp Val Pro Val .	920

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 13 (SEQ ID NO: 7)

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala	20
Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu	40
Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu	60
Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	80
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg	100
Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly	120
Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu	140
Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln	160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala	180
Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro Met Cys Lys	200
Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys	220
Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys	240
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His	260
Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu	280
Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro	300
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln	320
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg	340
Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn	360
Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser	380
Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe	400
Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro	420
Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn Gly Ala	440
Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu	460
Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val	480
Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro	500
Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly His Cys	520
Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys	540
Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys	560
Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu	580
Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys	600
Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu	620
Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys	640
Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser Gln Asn Glu Asp Leu Gly Pro	660
Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp	680
Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala	700
Pro Gly Ala Gly Gly Met Val His His Arg His Arg . . 714	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 14 (SEQ ID NO: 8)

Met Glu Leu Ala Ala Trp Cys Arg Trp Gly Phe Leu Leu Ala Leu Leu Pro Pro Gly Ile	20
Ala Gly Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu	40
Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu	60
Glu Leu Thr Tyr Val Pro Ala Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	80
Gln Gly Tyr Met Leu Ile Ala His Asn Gln Val Lys Arg Val Pro Leu Gln Arg Leu Arg	100
Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Lys Tyr Ala Leu Ala Val Leu Asp Asn Arg	120
Asp Pro Gln Asp Asn Val Ala Ala Ser Thr Pro Gly Arg Thr Pro Glu Gly Leu Arg Glu	140
Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Arg Gly Asn Pro	160
Gln Leu Cys Tyr Gln Asp Met Val Leu Trp Lys Asp Val Phe Arg Lys Asn Asn Gln Leu	180
Ala Pro Val Asp Ile Asp Thr Asn Arg Ser Arg Ala Cys Pro Pro Cys Ala Pro Ala Cys	200
Lys Asp Asn His Cys Trp Gly Glu Ser Pro Glu Asp Cys Gln Ile Leu Thr Gly Thr Ile	220
Cys Thr Ser Gly Cys Ala Arg Cys Lys Gly Arg Leu Pro Thr Asp Cys Cys His Glu Gln	240
Cys Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn	260
His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe	280
Glu Ser Met His Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Thr Cys	300
Pro Tyr Asn Tyr Leu Ser Thr Glu Val Gly Ser Cys Thr Leu Val Cys Pro Pro Asn Asn	320
Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala	340
Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Gly Ala Arg Ala Ile Thr Ser Asp	360
Asn Val Gln Glu Phe Asp Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu	380
Ser Phe Asp Gly Asp Pro Ser Ser Gly Ile Ala Pro Leu Arg Pro Glu Gln Leu Gln Val	400
Phe Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu	420
Arg Asp Leu Ser Val Phe Gln Asn Leu Arg Ile Ile Arg Gly Arg Ile Leu His Asp Gly	440
Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile His Ser Leu Gly Leu Arg Ser Leu Arg	460
Glu Leu Gly Ser Gly Leu Ala Leu Ile His Arg Asn Ala His Leu Cys Phe Val His Thr	480
Val Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Ser Gly Asn Arg	500
Pro Glu Glu Asp Cys Gly Leu Glu Gly Leu Val Cys Asn Ser Leu Cys Ala His Gly His	520
Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser His Phe Leu Arg Gly Gln Glu	540
Cys Val Glu Glu Cys Arg Val Trp Lys Gly Leu Pro Arg Glu Tyr Val Ser Asp Lys Arg	560
Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Ser Ser Glu Thr Cys Phe Gly Ser	580
Glu Ala Asp Gln Cys Ala Ala Cys Ala His Tyr Lys Asp Ser Ser Ser Cys Val Ala Arg	600
Cys Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Tyr Pro Asp Glu	620
Glu Gly Ile Cys Gln Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Glu	640
Arg Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Val Thr Phe 654	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

FIGURE 15a (SEQ ID NO:9)

atg gag ctg gcg gcc ttg tgc cgc tgg ggg ctc ctc ctc gcc ctc ttg	48
Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu	
1 5 10 15	
ccc ccc gga gcc gcg agc acc caa gtg tgc acc ggc aca gac atg aag	96
Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys	
20 25 30	
ctg cgg ctc cct gcc agt ccc gag acc cac ctg gac atg ctc cgc cac	144
Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His	
35 40 45	
ctc tac cag ggc tgc cag gtg gtg cag gga aac ctg gaa ctc acc tac	192
Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr	
50 55 60	
ctg ccc acc aat gcc agc ctg tcc ttc ctg cag gat atc cag gag gtg	240
Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val	
65 70 75 80	
cag ggc tac gtg ctc atc gct cac aac caa gtg agg cag gtc cca ctg	288
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu	
85 90 95	
cag agg ctg cgg att gtg cga ggc acc cag ctc ttt gag gac aac tat	336
Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr	
100 105 110	
gcc ctg gcc gtg cta gac aat gga gac ccg ctg aac aat acc acc cct	384
Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro	
115 120 125	
gtc aca ggg gcc tcc cca gga ggc ctg cgg gag ctg cag ctt cga agc	432
Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser	
130 135 140	
ctc aca gag atc ttg aaa gga ggg gtc ttg atc cag cgg aac ccc cag	480
Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln	
145 150 155 160	
ctc tgc tac cag gac acg att ttg tgg aag gac atc ttc cac aag aac	528
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn	
165 170 175	
aac cag ctg gct ctc aca ctg ata gac acc aac cgc tct cgg gcc tgc	576
Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys	
180 185 190	
cac ccc tgt tct ccg atg tgt aag ggc tcc cgc tgc tgg gga gag agt	624
His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser	
195 200 205	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
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Figure 15b (SEQ ID NO: 9)

tct gag gat tgt cag agc ctg acg cgc act gtc tgt gcc ggt ggc tgt	672
Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys	
210 215 220	
gcc cgc tgc aag ggg cca ctg ccc act gac tgc tgc cat gag cag tgt	720
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys	
225 230 235 240	
gct gcc ggc tgc acg ggc ccc aag cac tct gac tgc ctg gcc tgc ctc	768
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu	
245 250 255	
cac ttc aac cac agt ggc atc tgt gag ctg cac tgc cca gcc ctg gtc	816
His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val	
260 265 270	
acc tac aac aca gac acg ttt gag tcc atg ccc aat ccc gag ggc cgg	864
Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg	
275 280 285	
tat aca ttc ggc gcc agc tgt gtg act gcc tgt ccc tac aac tac ctt	912
Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu	
290 295 300	
tct acg gac gtg gga tcc tgc acc ctc gtc tgc ccc ctg cac aac caa	960
Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln	
305 310 315 320	
gag gtg aca gca gag gat gga aca cag cgg tgt gag aag tgc agc aag	1008
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys	
325 330 335	
ccc tgt gcc cga gtg tgc tat ggt ctg ggc atg gag cac ttg cga gag	1056
Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu	
340 345 350	
gtg agg gca gtt acc agt gcc aat atc cag gag ttt gct ggc tgc aag	1104
Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys	
355 360 365	
aag atc ttt ggg agc ctg gca ttt ctg ccg gag agc ttt gat ggg gac	1152
Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp	
370 375 380	
cca gcc tcc aac act gcc ccg ctc cag cca gag cag ctc caa gtg ttt	1200
Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe	
385 390 395 400	
gag act ctg gaa gag atc aca ggt tac cta tac atc tca gca tgg ccg	1248
Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro	
405 410 415	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
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Figure 15c (SEQ ID NO: 9)

gac agc ctg cct gac ctc agc gtc ttc cag aac ctg caa gta atc cgg	1296
Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg	
420 425 430	
gga cga att ctg cac aat ggc gcc tac tcg ctg acc ctg caa ggg ctg	1344
Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu	
435 440 445	
ggc atc agc tgg ctg ggg ctg cgc tca ctg agg gaa ctg ggc agt gga	1392
Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly	
450 455 460	
ctg gcc ctc atc cac cat aac acc cac ctc tgc ttc gtg cac acg gtg	1440
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val	
465 470 475 480	
ccc tgg gac cag ctc ttt cgg aac ccg cac caa gct ctg ctc cac act	1488
Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr	
485 490 495	
gcc aac cgg cca gag gac gag tgt gtg ggc gag ggc ctg gcc tgc cac	1536
Ala Asn Arg Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His	
500 505 510	
cag ctg tgc gcc cga ggg cac tgc tgg ggt cca ggg ccc acc cag tgt	1584
Gln Leu Cys Ala Arg Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys	
515 520 525	
gtc aac tgc agc cag ttc ctt cgg ggc cag gag tgc gtg gag gaa tgc	1632
Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys Val Glu Glu Cys	
530 535 540	
cga gta ctg cag ggg ctc ccc agg gag tat gtg aat gcc agg cac tgt	1680
Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys	
545 550 555 560	
ttg ccg tgc cac cct gag tgt cag ccc cag aat ggc tca gtg acc tgt	1728
Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys	
565 570 575	
ttt gga ccg gag gct gac cag tgt gtg gcc tgt gcc cac tat aag gac	1776
Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp	
580 585 590	
cct ccc ttc tgc gtg gcc cgc tgc ccc agc ggt gtg aaa cct gac ctc	1824
Pro Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro Asp Leu	
595 600 605	
tcc tac atg ccc atc tgg aag ttt cca gat gag gag ggc gca tgc cag	1872
Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln	
610 615 620	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
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Figure 15d (SEQ ID NO: 9)

cct tgc ccc atc aac tgc acc cac tcc tgt gtg gac ctg gat gac aag	1920
Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys	
625 630 635 640	
ggc tgc ccc gcc gag cag aga gcc agc cct ctg acg tcc atc atc tct	1968
Gly Cys Pro Ala Glu Gln Arg Ala Ser Pro Leu Thr Ser Ile Ile Ser	
645 650 655	
gcg gtg gtt ggc att ctg ctg gtc gtg gtc ttg ggg gtg gtc ttt ggg	2016
Ala Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly	
660 665 670	
atc ctc atc aag cga cgg cag cag aag atc cgg aag tac acg atg cgg	2064
Ile Leu Ile Lys Arg Arg Gln Gln Lys Ile Arg Lys Tyr Thr Met Arg	
675 680 685	
aga ctg ctg cag gaa acg gag ctg gtg gag ccg ctg aca cct agc gga	2112
Arg Leu Leu Gln Glu Thr Glu Leu Val Glu Pro Leu Thr Pro Ser Gly	
690 695 700	
gcg atg ccc aac cag gcg cag atg cgg atc ctg aaa gag acg gag ctg	2160
Ala Met Pro Asn Gln Ala Gln Met Arg Ile Leu Lys Glu Thr Glu Leu	
705 710 715 720	
agg aag gtg aag gtg ctt gga tct ggc gct ttt ggc aca gtc tac aag	2208
Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys	
725 730 735	
ggc atc tgg atc cct gat ggg gag aat gtg aaa att cca gtg gcc atc	2256
Gly Ile Trp Ile Pro Asp Gly Glu Asn Val Lys Ile Pro Val Ala Ile	
740 745 750	
aaa gtg ttg agg gaa aac aca tcc ccc aaa gcc aac aaa gaa atc tta	2304
Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu	
755 760 765	
gac gaa gca tac gtg atg gct ggt gtg ggc tcc cca tat gtc tcc cgc	2352
Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg	
770 775 780	
ctt ctg ggc atc tgc ctg aca tcc acg gtg cag ctg gtg aca cag ctt	2400
Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln Leu	
785 790 795 800	
atg ccc tat ggc tgc ctc tta gac cat gtc cgg gaa aac cgc gga cgc	2448
Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn Arg Gly Arg	
805 810 815	
ctg ggc tcc cag gac ctg ctg aac tgg tgt atg cag att gcc aag ggg	2496
Leu Gly Ser Gln Asp Leu Leu Asn Trp Cys Met Gln Ile Ala Lys Gly	
820 825 830	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
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Figure 15e (SEQ ID NO: 9)

atg agc tac ctg gag gat gtg cgg ctc gta cac agg gac ttg gcc gct	2544
Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu Ala Ala	
835 840 845	
cgg aac gtg ctg gtc aag agt ccc aac cat gtc aaa att aca gac ttc	2592
Arg Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr Asp Phe	
850 855 860	
ggg ctg gct cgg ctg ctg gac att gac gag aca gag tac cat gca gat	2640
Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp	
865 870 875 880	
ggg ggc aag gtg ccc atc aag tgg atg gcg ctg gag tcc att ctc cgc	2688
Gly Gly Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg	
885 890 895	
cgg cgg ttc acc cac cag agt gat gtg tgg agt tat ggt gtg act gtg	2736
Arg Arg Phe Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val	
900 905 910	
tgg gag ctg atg act ttt ggg gcc aaa cct tac gat ggg atc cca gcc	2784
Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala	
915 920 925	
cgg gag atc cct gac ctg ctg gaa aag ggg gag cgg ctg ccc cag ccc	2832
Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro	
930 935 940	
ccc atc tgc acc att gat gtc tac atg atc atg gtc aaa tgt tgg atg	2880
Pro Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met	
945 950 955 960	
att gac tct gaa tgt cgg cca aga ttc cgg gag ttg gtg tct gaa ttc	2928
Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe	
965 970 975	
tcc cgc atg gcc agg gac ccc cag cgc ttt gtg gtc atc cag aat gag	2976
Ser Arg Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln Asn Glu	
980 985 990	
gac ttg ggc cca gcc agt ccc ttg gac agc acc ttc tac cgc tca ctg	3024
Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu	
995 1000 1005	
ctg gag gac gat gac atg ggg gac ctg gtg gat gct gag gag tat	3069
Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr	
1010 1015 1020	
ctg gta ccc cag cag ggc ttc ttc tgt cca gac cct gcc ccg ggc	3114
Leu Val Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly	
1025 1030 1035	

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
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Figure 15f (SEQ ID NO: 9)

gct	ggg	ggc	atg	gtc	cac	cac	agg	cac	cgc	agc	tca	tct	acc	agg	3159
Ala	Gly	Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Ser	Thr	Arg	
1040						1045					1050				
agt	ggc	ggg	ggg	gac	ctg	aca	cta	ggg	ctg	gag	ccc	tct	gaa	gag	3204
Ser	Gly	Gly	Gly	Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	
1055						1060					1065				
gag	gcc	ccc	agg	tct	cca	ctg	gca	ccc	tcc	gaa	ggg	gct	ggc	tcc	3249
Glu	Ala	Pro	Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser	
1070						1075					1080				
gat	gta	ttt	gat	ggg	gac	ctg	gga	atg	ggg	gca	gcc	aag	ggg	ctg	3294
Asp	Val	Phe	Asp	Gly	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	
1085						1090					1095				
caa	agc	ctc	ccc	aca	cat	gac	ccc	agc	cct	cta	cag	cgg	tac	agt	3339
Gln	Ser	Leu	Pro	Thr	His	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	
1100						1105					1110				
gag	gac	ccc	aca	gta	ccc	ctg	ccc	tct	gag	act	gat	ggc	tac	gtt	3384
Glu	Asp	Pro	Thr	Val	Pro	Leu	Pro	Ser	Glu	Thr	Asp	Gly	Tyr	Val	
1115						1120					1125				
gcc	ccc	ctg	acc	tgc	agc	ccc	cag	cct	gaa	tat	gtg	aac	cag	cca	3429
Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln	Pro	Glu	Tyr	Val	Asn	Gln	Pro	
1130						1135					1140				
gat	gtt	cgg	ccc	cag	ccc	cct	tcg	ccc	cga	gag	ggc	cct	ctg	cct	3474
Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Glu	Gly	Pro	Leu	Pro	
1145						1150					1155				
gct	gcc	cga	cct	gct	ggg	gcc	act	ctg	gaa	agg	ccc	aag	act	ctc	3519
Ala	Ala	Arg	Pro	Ala	Gly	Ala	Thr	Leu	Glu	Arg	Pro	Lys	Thr	Leu	
1160						1165					1170				
tcc	cca	ggg	aag	aat	ggg	gtc	gtc	aaa	gac	gtt	ttt	gcc	ttt	ggg	3564
Ser	Pro	Gly	Lys	Asn	Gly	Val	Val	Lys	Asp	Val	Phe	Ala	Phe	Gly	
1175						1180					1185				
ggg	gcc	gtg	gag	aac	ccc	gag	tac	ttg	aca	ccc	cag	gga	gga	gct	3609
Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Thr	Pro	Gln	Gly	Gly	Ala	
1190						1195					1200				
gcc	cct	cag	ccc	cac	cct	cct	cct	gcc	ttc	agc	cca	gcc	ttc	gac	3654
Ala	Pro	Gln	Pro	His	Pro	Pro	Pro	Ala	Phe	Ser	Pro	Ala	Phe	Asp	
1205						1210					1215				
aac	ctc	tat	tac	tgg	gac	cag	gac	cca	cca	gag	cgg	ggg	gct	cca	3699
Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala	Pro	
1220						1225					1230				

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
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Figure 15g (SEQ ID NO: 9)

ccc agc	acc ttc	aaa ggg	aca cct	acg gca	gag aac	cca gag	tac	3744
Pro Ser	Thr Phe	Lys Gly	Thr Pro	Thr Ala	Glu Asn	Pro Glu	Tyr	
1235			1240		1245			
ctg ggt	ctg gac	gtg cca	gtg tga				3768	
Leu Gly	Leu Asp	Val Pro	Val					
1250			1255					

ctg ggt	ctg gac	gtg cca	gtg tga	3768
Leu Gly	Leu Asp	Val Pro	Val	
1250		1255		

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
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FIGURE 16a (SEQ ID NO: 10)

```
1  ccggggccgga  gccgcaatga  tcatcatgga  gctggcggcc  tgggtgccgct  ggggggttccct
61  cctcgccctc  ctgccccccg  gaatcgcggy  cacccaagtg  tgtaccggca  cagacatgaa
121  gttgcggctc  cctgccagtc  ctgagacca  cctggacatg  ctccgccacc  tgtaccaggg
181  ctgtcaggta  gtgcagggca  acttgagct  tacctacgtg  cctgccaatg  ccagcctctc
241  attcctgcag  gacatccagg  aagttcaggg  ttacatgctc  atcgctcaca  accagggtgaa
301  gcgcgtccca  ctgcaaaggc  tgcgcatcgt  gagagggacc  cagctctttg  aggacaagta
361  tgccctggct  gtgctagaca  accgagatcc  tcaggacaat  gtcgccgcct  ccaccccagg
421  cagaacccca  gaggggctgc  gggagctgca  gcttcgaagt  ctcacagaga  tcctgaaggg
481  aggagttttt  atccgtggga  accctcagct  ctgctaccag  gacatggttt  tgtggaagga
541  cgtcttccgc  aagaataacc  aactggctcc  tgctgatata  gacaccaatc  gttcccgggc
601  ctgtccacct  tgtgcccccg  cctgcaaaga  caatcactgt  tggggtgaga  gtccggaaga
661  ctgtcagatc  ttgactggca  ccatctgtac  cagtggttgt  gcccggtgca  agggccggct
721  gcccaactgac  tgctgccatg  agcagtgctg  cgcaggctgc  acgggcccc  agcatctctga
781  ctgcctggcc  tgccctccact  tcaatcatag  tggatatctg  gagctgcact  gccagccct
841  cgtcacctac  aacacagaca  cctttgagtc  catgcacaac  cctgagggtc  gctacacctt
901  tggtagccagc  tgcgtagaca  cctgcccta  caactacctg  tctacggaag  tgggatccctg
961  cactctgggtg  tgtccccga  ataaccaaga  ggtcacagct  gaggacggaa  cacagcgttg
1021  tgagaaatgc  agcaagccct  gtgctcagtg  gtgctatggt  ctgggcatgg  agcaccttcg
1081  aggggcgagg  gccatcacca  gtgacaatgt  ccaggagttt  gatggctgca  agaagatcct
1141  tgggagccctg  gcatttttgc  cggagagctt  tgatggggac  ccctcctccg  gcattgctcc
1201  gctgaggcct  gagcagctcc  aagtgttcga  aaccctggag  gagatcacag  gttacctgta
1261  catctcagca  ttggccagaca  gtctccgtga  cctcagtgtc  ttccagaacc  ttcgaatcat
1321  tcggggacgg  attctccacg  atggcgcgta  ctcattgaca  ctgcaaggcc  tgggatccca
1381  ctgcgtgggg  ctgcgctcac  tgccggagct  gggcagtgga  ttggctctga  ttcaccgcaa
1441  cgcccatctc  tgctttgtac  acactgtacc  ttgggaccag  ctcttcggga  acccacatca
1501  ggccctgctc  cacagtggga  accggccgga  agaggacttg  tgcgctctga  gcggcttggt
1561  ctgtaactca  ctgtgtgccc  acgggcactg  ctgggggcca  gggccacccc  agtgtgtcaa
1621  ctgcagtcac  ttccctcggg  gccaggagtg  tgtggaggag  tgccgagtat  ggaaggggct
1681  cccccggag  tatgtgagtg  acaagcgctg  tctgccgtgt  caccocgagt  gtcagcctca
1741  aaacagctca  gagacctgct  ttggatcgga  ggctgatcag  tgtgcagcct  gcgcccacta
1801  caaggactcg  tccctctgtg  tggctcgtg  cccagtggt  gtgaaaccgg  acctctccta
1861  catgcccac  tggaagtacc  cggatgagga  gggcatatgc  cagccgtgcc  ccatcaactg
1921  caccactcc  tgtgtggatc  tggatgaacg  aggctgcca  gcagagcaga  gagccagccc
1981  ggtgacattc  atcattgcaa  ctgtagaggg  cgtcctgctg  ttctgatct  tagtggtgg
2041  cgttggaatc  ctaatcaaac  gaaggagaca  gaagatccgg  aagtatacga  tgctgaggct
2101  gctgcaggaa  actgagttag  tggagccgtg  gacgcccagc  ggagcaatgc  ccaaccaggc
2161  tcagatgcgg  atcctaaaag  agacggagct  aagggaagtg  aagggtgctg  gatcaggagc
2221  ttttggaact  gtctacaagg  gcatctggat  cccagatggg  gagaatgtga  aaatccccgt
2281  ggctatcaag  gtgttgagag  aaaacacatc  tcctaaagcc  aacaaagaaa  ttctagatga
2341  agcgtatgtg  atggctggtg  tgggttctcc  gtatgtgtcc  cgccctcctg  gcattgcct
2401  gacatccaca  gtacagctgg  tgacacagct  tatgccctac  ggctgccttc  tggaccatgt
2461  ccgagaacac  cgaggtcgcc  taggctccca  ggacctgctc  aactgggtgt  ttcagattgc
2521  caaggggatg  agctacctgg  aggacgtcgt  gcttgtagac  agggacctgg  ctgcccggaa
2581  tgtgctagtc  aagagtccca  accacgtcaa  gattacagat  ttccggctgg  ctccgctgct
2641  ggacattgat  gagacagagt  accatgcaga  tgggggcaag  gtgcccac  aatggatggc
2701  attggaatct  attctcagac  gccggttcac  ccatcagagt  gatgtgtgga  gctatggagt
2761  gactgtgtgg  gagctgatga  cttttggggc  caaaccttac  gatggaatcc  cagcccggga
2821  gatccctgat  ttgctggaga  agggagaacg  cctacctcag  cctccaatct  gcaccattga
2881  tgtctacatg  attatgttca  aatgttggt  gattgactct  gaatgtcgcc  cgagattccg
2941  ggagttgggt  tcagaatttt  cacgtatggc  gagggacccc  cagcgttttg  tggctatcca
3001  gaacgaggac  ttggggccat  ccagccccc  ggacagtacc  ttctaccgtt  cactgctgga
3061  agatgatgac  atgggtgacc  tggtagacgc  tgaagagtat  ctggtgccc  agcagggatt
3121  cttctccccg  gaccctaccc  caggcactgg  gagcacagcc  catagaaggc  accgcagctc
3181  gtccaccagg  agtggaggtg  gtgagctgac  actgggcctg  gagccctcgg  aagaaggggc
3241  ccccagatct  cactggctc  cctcggaagg  ggctggctcc  gatgtgtttg  atggtgacct
3301  ggcaatgggg  gtaaccaaag  ggctgcagag  cctctctcca  catgacctca  gccctctaca
```

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

FIGURE 16b (SEQ ID NO: 10)

```
3361 gcggtacagc gaggacccca cattacctct gccccccgag actgatggct atgttgctcc
3421 cctggcctgc agccccccagc ccgagtatgt gaaccaatca gaggttcagc ctcagcctcc
3481 tttaacccca gagggtcctc tgccctcctgt ccggcctgct ggtgctactc tagaaagacc
3541 caagactctc tctcctggga agaatggggt tgtcaaagac gtttttgctc tcgggggtgc
3601 tgtggagaac cctgaatact tagtaccgag agaaggcact gcctctccgc cccacccttc
3661 tcctgccttc agcccagcct ttgacaacct ctattactgg gaccagaact catcgagca
3721 ggggcctcca ccaagtaact ttgaaggac cccactgca gagaaccctg agtacctagg
3781 cctggatgta cctgtatgag acgtgtgcag acgtcctgtg ctttcagagt ggggaaggcc
3841 tgacttgtgg tctccatcgc cacaaagcag ggagagggtc ctctggccac attacatcca
3901 gggcagacgg ctctaccagg aacctgcccc gaggaacctt tccttgctgc ttgaa
```

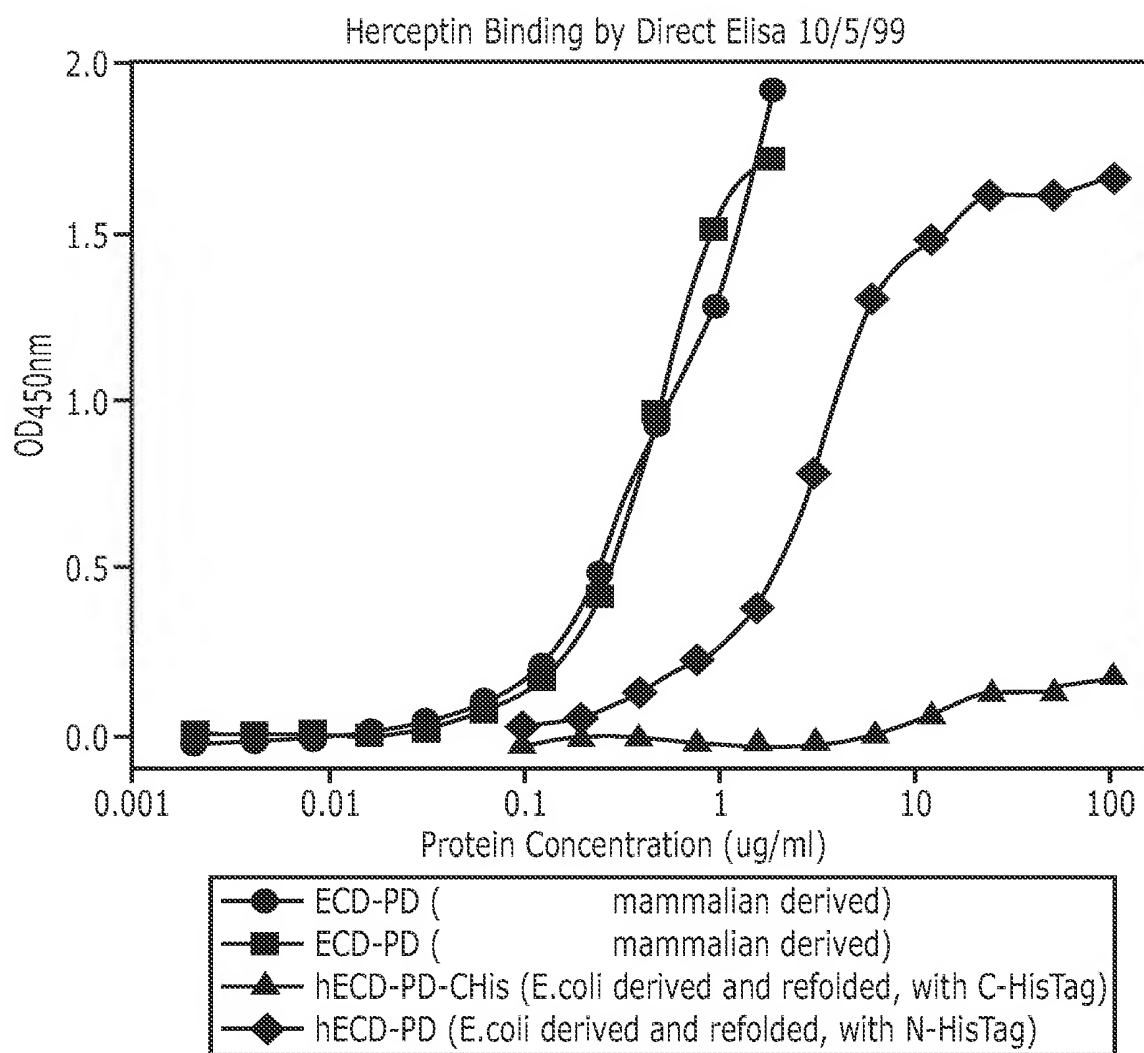
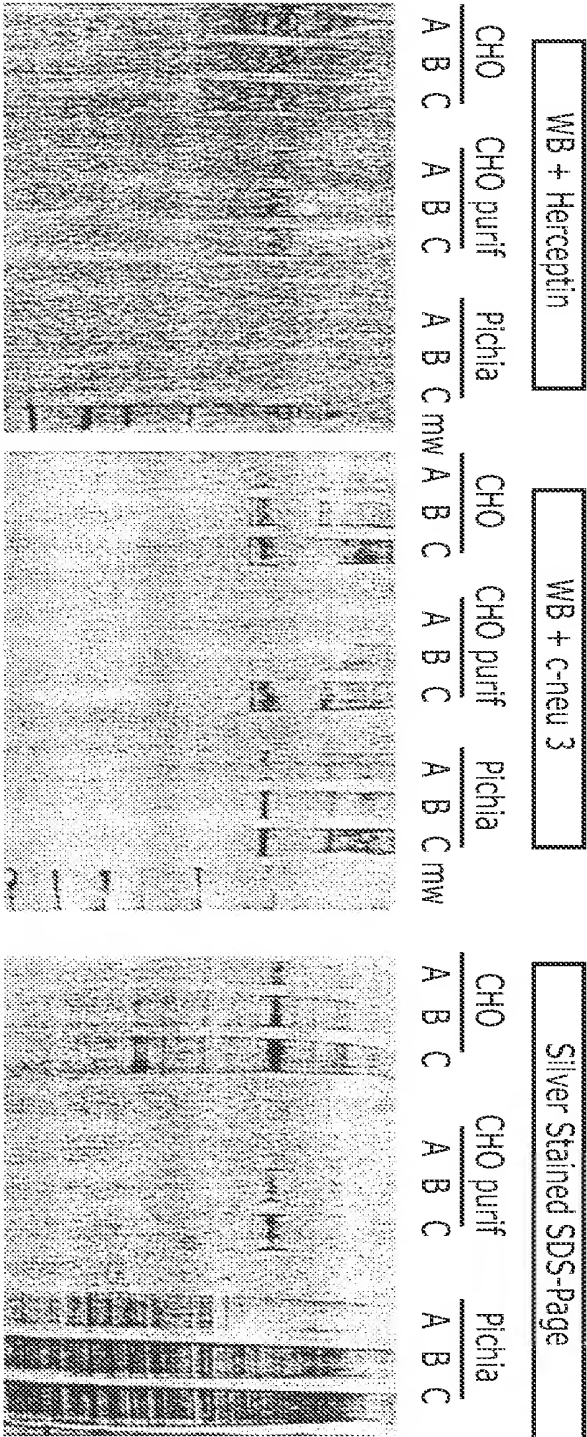


FIG. 17

Comparison of Her2new ECD-PD Expression in CHO-K1 (S/SF) and Pichia (Non reducing conditions)



Legend: CHO; A, B, C = 2,5µl/ 5µl/ 10µl
 CHO purif; A, B, C = 125ng/ 250ng/ 500ng
 Pichia; A, B, C = 2,5µl/ 5µl/ 10µl from a 1/30 dilution of OD 120

FIG. 18

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

FIGURE 19a (SEQ ID NO:11)

atggagctgg	cggcctggtg	ccgttggggg	ttcctcctcg	ccctcctgtc	ccccggagcc	60
gcgggtaccc	aagtgtgtac	cggtagccgac	atgaagttgc	gactccctgc	cagtcctgag	120
acccacctgg	acatgcttcg	ccacctctac	cagggtgtgc	aggtggtgca	gggcaatttg	180
gagcttacct	acctgcccgc	caatgccagc	ctctcattcc	tgcaggacat	ccaggaagtc	240
cagggataca	tgctcatcgc	tcacaaccga	gtgaaacacg	tcccactgca	gaggttgccg	300
atcgtgagag	ggactcagct	ctttgaggac	aagtatgccc	tggctgtgct	agacaaccga	360
gacccttttg	acaacgtcac	caccgcgcgc	ccaggcagaa	ccccagaagg	gctgcgggag	420
ctgcagcttc	gaagtctcac	agagatcttg	aagggaggag	ttttgatccg	tgggaacctc	480
cagctctgct	accaggacat	ggttttgtgg	aaggatgtcc	tccgtaagaa	taaccagctg	540
gctcctgtcg	acatggacac	caatcgttcc	cgggcctgtc	caccttgtgc	cccaacctgc	600
aaagacaatc	actgttgggg	tgagagtcc	gaagactgtc	agatcttgac	tggcaccatc	660
tgtactagtg	gctgtgccc	gtgcaagggc	cggctgcca	ctgactgttg	ccatgagcag	720
tgtgtgcag	gctgcacggg	tccaagcat	tctgactgcc	tggcctgcct	ccacttcaat	780
catagtggta	tctgtgagct	gcactgccc	gccctcatca	cctacaacac	agacaccttc	840
gagtccatgc	tcaacctga	ggctcgctac	acctttgggtg	ccagctgtgt	gaccacctgc	900
ccctacaact	acctctccac	ggaagtggga	tctgcactc	tggctgtgcc	cccgaacaac	960
caagaggtca	cagctgagga	cggaacacag	cgggtgtgaga	aatgcagcaa	gccctgtgct	1020
ggagtatgct	atggtctggg	catggagcac	ctccgagggg	cgagggccat	caccagtgc	1080
aatatccagg	agtttgctgg	ctgcaagaag	atctttggga	gcctggcatt	tttgccggag	1140
agctttgatg	ggaacccctc	ctccggcggt	gccccactga	agccagagca	tctccaagt	1200
ttcgaaccc	tggaggagat	cacaggttac	ctatacattt	cagcatggcc	agagagcttc	1260
caagacctca	gtgtcttcca	gaaccttcgg	gtcattcggg	gacggattct	ccatgatggt	1320
gcttactcat	tgacgttgca	aggcctgggg	attcactcac	tggggctacg	ctcactgcgg	1380
gagctgggca	gtggattggc	tctcattcac	cgcaacaccc	atctctgctt	tgtaaacact	1440
gtaccttggg	accagctctt	ccggaacccg	caccaggccc	tactccacag	tgggaaccgg	1500
ccagaagagg	catgtggtct	tgagggttg	gtctgtaact	cactgtgtgc	ccgtgggcac	1560
tgctgggggc	cagggccccac	ccagtgtgtc	aactgcagtc	agttcctccg	gggccaggag	1620
tgtgtggagg	agtgccgagt	atggaagggg	ctccccaggg	agtatgtgag	gggcaagcac	1680
tgtctgccat	cccaccccga	gtgtcagcct	caaaacagct	cggagacctg	ctatggatcg	1740
gagggtgacc	agtgtgaggc	ttgtgcccac	tacaaggact	catcttcctg	tgtggctcgc	1800
tgccccagt	gtgtgaagcc	agacctctcc	tacatgccta	tctggaagta	cccggatgag	1860
gagggcata	gtcagccatg	ccccatcaac	tgcaccact	catgtgtgga	cctggacgaa	1920
cgaggctgcc	cagcagagca	gagagccagc	ccagtgcacat	tcatcattgc	aactgtggtg	1980
ggcgtcctgt	tgttctctgat	catagtgggtg	gtcattggaa	tcctaataca	acgaaggcga	2040
cagaagatca	ggaagtatac	catgcgtagg	ctgctgcagg	agaccgagct	ggtggagccg	2100
ctgacgccc	gtggaagctg	gccaaccag	ctgcagatgc	ggatcctaaa	ggagacagag	2160
ctaaggaagc	tgaaggtgct	tgggtcagga	gccttcggca	ctgtctacaa	gggcatctgg	2220
atcccagatg	gggagaacgt	gaaaatcccc	gtggccatca	aggtgttgag	ggaaaacaca	2280
tctcctaaag	ctaacaaga	aatcctagat	gaagcgtacg	tcatggctgg	tgtgggttct	2340
ccatatgtgt	cccgcctcct	ggcatctgc	ctgacatcca	cagtgcagct	ggtgacacag	2400
cttatgccct	atggctgcct	tctggaccat	gtccgagaac	accgaggctc	cttaggctcc	2460
caggacctgc	tcaactggtg	tgttcagatt	gccaagggga	tgagctacct	ggaggaagtt	2520
cggcttggtc	acagggacct	agctgcccga	aacgtgctag	tcaagagtcc	caaccacgtc	2580
aagattaccg	acttcgggct	ggcacggctg	ctggacattg	atgagactga	ataccatgca	2640
gatgggggca	aggtgccc	caagtggatg	gcattggaat	ctattctcag	acgccggttc	2700
actcatcaga	gtgatgtgtg	gagctatggt	gtgactgtgt	gggagctgat	gacctttggg	2760
gccaaacctt	acgatgggat	ccagctcgg	gagatccctg	atttgctgga	gaagggagaa	2820
gcctacacct	agcctccaat	ctgcaccatc	gacgtctaca	tgatcatggt	caaagtgttg	2880
atgattgact	ccgaatgtcg	cccagatttc	cgggagttgg	tatcagaatt	ctcccgtatg	2940
gcaagggacc	cccagcgctt	tgtggctc	cagaacgagg	acttaggcc	ctccagcccc	3000
atggacagca	ccttctaccg	ttcactgtcg	gaggatgatg	acatggggga	gctgggtcgat	3060
gctgaagagt	acctggtacc	ccagcaggga	ttcttctccc	cagaccctgc	cctaggtact	3120
gggagcacag	cccaccgcag	acaccgcagc	tgcgtcgcca	ggagtggcgg	tgggtgagctg	3180
acactggggc	tggagccctc	ggaagaagag	ccccccagat	ctccactggc	tccctccgaa	3240
ggggctggct	ccgatgtgtt	tgatggtgac	ctggcagtg	gggtaaccaa	aggactgcag	3300
agcctctctc	cacatgacct	cagccctcta	cagcgggtaca	gtgaggatcc	cacattacct	3360

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

FIGURE 19b (SEQ ID NO:11)

ctgcccccg	agactgatgg	ctacgttgct	ccctggcct	gcagcccca	gcccagtat	3420
gtgaaccagc	cagaggttcg	gcctcagtct	cccttgacc	cagagggtec	tccgcctccc	3480
atccgacctg	ctggtgctac	tctagaaaga	ccaagactc	tctctcctgg	gaaaaatggg	3540
gttgtaaag	acgtttttgc	ctttgggggt	gctgtggaga	accctgaata	cctagcacc	3600
agagcaggca	ctgcctctca	gccccaccct	tctcctgcct	tcagcccagc	ctttgacaac	3660
ctctattact	gggaccagaa	ctcatcgag	cagggtcctc	caccaagtac	ctttgaagg	3720
acccccactg	cagagaacc	tgagtaccta	ggcctggatg	tgccagtatg	a	3771

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 20a (SEQ ID NO:14)

Met	Glu	Leu	Ala	Ala	Trp	Cys	Arg	Trp	Gly	Phe	Leu	Leu	Ala	Leu	Leu			
1				5					10					15				
Ser	Pro	Gly	Ala	Ala	Gly	Thr	Gln	Val	Cys	Thr	Gly	Thr	Asp	Met	Lys			
			20					25					30					
Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met	Leu	Arg	His			
		35					40					45						
Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr			
	50					55					60							
Leu	Pro	Ala	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile	Gln	Glu	Val			
65				70						75					80			
Gln	Gly	Tyr	Met	Leu	Ile	Ala	His	Asn	Arg	Val	Lys	His	Val	Pro	Leu			
				85					90					95				
Gln	Arg	Leu	Arg	Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu	Asp	Lys	Tyr			
			100					105					110					
Ala	Leu	Ala	Val	Leu	Asp	Asn	Arg	Asp	Pro	Leu	Asp	Asn	Val	Thr	Thr			
		115					120					125						
Ala	Ala	Pro	Gly	Arg	Thr	Pro	Glu	Gly	Leu	Arg	Glu	Leu	Gln	Leu	Arg			
	130						135				140							
Ser	Leu	Thr	Glu	Ile	Leu	Lys	Gly	Gly	Val	Leu	Ile	Arg	Gly	Asn	Pro			
145					150					155					160			
Gln	Leu	Cys	Tyr	Gln	Asp	Met	Val	Leu	Trp	Lys	Asp	Val	Leu	Arg	Lys			
				165					170					175				
Asn	Asn	Gln	Leu	Ala	Pro	Val	Asp	Met	Asp	Thr	Asn	Arg	Ser	Arg	Ala			
			180					185					190					
Cys	Pro	Pro	Cys	Ala	Pro	Thr	Cys	Lys	Asp	Asn	His	Cys	Trp	Gly	Glu			
		195					200					205						
Ser	Pro	Glu	Asp	Cys	Gln	Ile	Leu	Thr	Gly	Thr	Ile	Cys	Thr	Ser	Gly			
	210					215					220							
Cys	Ala	Arg	Cys	Lys	Gly	Arg	Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln			
225					230					235					240			
Cys	Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys			
				245					250					255				
Leu	His	Phe	Asn	His	Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu			
			260					265					270					
Ile	Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Met	Leu	Asn	Pro	Glu	Gly			
	275						280					285						
Arg	Tyr	Thr	Phe	Gly	Ala	Ser	Cys	Val	Thr	Thr	Cys	Pro	Tyr	Asn	Tyr			
	290					295					300							
Leu	Ser	Thr	Glu	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys	Pro	Pro	Asn	Asn			
305					310					315					320			
Gln	Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys	Cys	Ser			
				325					330					335				
Lys	Pro	Cys	Ala	Gly	Val	Cys	Tyr	Gly	Leu	Gly	Met	Glu	His	Leu	Arg			
			340					345					350					
Gly	Ala	Arg	Ala	Ile	Thr	Ser	Asp	Asn	Ile	Gln	Glu	Phe	Ala	Gly	Cys			
		355					360					365						
Lys	Lys	Ile	Phe	Gly	Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	Phe	Asp	Gly			
	370					375					380							
Asn	Pro	Ser	Ser	Gly	Val	Ala	Pro	Leu	Lys	Pro	Glu	His	Leu	Gln	Val			
385					390					395					400			

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 20b (SEQ ID NO:14)

Phe	Glu	Thr	Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu	Tyr	Ile	Ser	Ala	Trp
				405					410					415	
Pro	Glu	Ser	Phe	Gln	Asp	Leu	Ser	Val	Phe	Gln	Asn	Leu	Arg	Val	Ile
			420					425					430		
Arg	Gly	Arg	Ile	Leu	His	Asp	Gly	Ala	Tyr	Ser	Leu	Thr	Leu	Gln	Gly
		435					440					445			
Leu	Gly	Ile	His	Ser	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	Leu	Gly	Ser
	450					455					460				
Gly	Leu	Ala	Leu	Ile	His	Arg	Asn	Thr	His	Leu	Cys	Phe	Val	Asn	Thr
465				470						475				480	
Val	Pro	Trp	Asp	Gln	Leu	Phe	Arg	Asn	Pro	His	Gln	Ala	Leu	Leu	His
			485					490					495		
Ser	Gly	Asn	Arg	Pro	Glu	Glu	Ala	Cys	Gly	Leu	Glu	Gly	Leu	Val	Cys
			500					505					510		
Asn	Ser	Leu	Cys	Ala	Arg	Gly	His	Cys	Trp	Gly	Pro	Gly	Pro	Thr	Gln
	515						520					525			
Cys	Val	Asn	Cys	Ser	Gln	Phe	Leu	Arg	Gly	Gln	Glu	Cys	Val	Glu	Glu
	530					535					540				
Cys	Arg	Val	Trp	Lys	Gly	Leu	Pro	Arg	Glu	Tyr	Val	Arg	Gly	Lys	His
545				550						555				560	
Cys	Leu	Pro	Cys	His	Pro	Glu	Cys	Gln	Pro	Gln	Asn	Ser	Ser	Glu	Thr
			565					570						575	
Cys	Tyr	Gly	Ser	Glu	Ala	Asp	Gln	Cys	Glu	Ala	Cys	Ala	His	Tyr	Lys
			580					585					590		
Asp	Ser	Ser	Ser	Cys	Val	Ala	Arg	Cys	Pro	Ser	Gly	Val	Lys	Pro	Asp
		595					600					605			
Leu	Ser	Tyr	Met	Pro	Ile	Trp	Lys	Tyr	Pro	Asp	Glu	Glu	Gly	Ile	Cys
	610					615					620				
Gln	Pro	Cys	Pro	Ile	Asn	Cys	Thr	His	Ser	Cys	Val	Asp	Leu	Asp	Glu
625				630						635				640	
Arg	Gly	Cys	Pro	Ala	Glu	Gln	Arg	Ala	Ser	Pro	Val	Thr	Phe	Ile	Ile
			645					650					655		
Ala	Thr	Val	Val	Gly	Val	Leu	Leu	Phe	Leu	Ile	Ile	Val	Val	Val	Ile
			660					665					670		
Gly	Ile	Leu	Ile	Lys	Arg	Arg	Arg	Gln	Lys	Ile	Arg	Lys	Tyr	Thr	Met
	675						680					685			
Arg	Arg	Leu	Leu	Gln	Glu	Thr	Glu	Leu	Val	Glu	Pro	Leu	Thr	Pro	Ser
	690					695					700				
Gly	Ala	Val	Pro	Asn	Gln	Ala	Gln	Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu
705				710						715				720	
Leu	Arg	Lys	Leu	Lys	Val	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Thr	Val	Tyr
			725					730					735		
Lys	Gly	Ile	Trp	Ile	Pro	Asp	Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala
			740				745						750		
Ile	Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys	Glu	Ile
	755					760					765				
Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr	Val	Ser
	770					775					780				
Arg	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser	Thr	Val	Gln	Leu	Val	Thr	Gln
785				790						795				800	
Leu	Met	Pro	Tyr	Gly	Cys	Leu	Leu	Asp	His	Val	Arg	Glu	His	Arg	Gly
			805					810					815		

REPLACEMENT SHEET
Title: HER-2/NEU Fusion Proteins
Inventor: Cheever et al.
Attorney Docket No. CRX113US

Figure 20c (SEQ ID NO:14)

Arg	Leu	Gly	Ser	Gln	Asp	Leu	Leu	Asn	Trp	Cys	Val	Gln	Ile	Ala	Lys	820	825	830
Gly	Met	Ser	Tyr	Leu	Glu	Glu	Val	Arg	Leu	Val	His	Arg	Asp	Leu	Ala	835	840	845
Ala	Arg	Asn	Val	Leu	Val	Lys	Ser	Pro	Asn	His	Val	Lys	Ile	Thr	Asp	850	855	860
Phe	Gly	Leu	Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	865	870	875
Asp	Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	885	890	895
Arg	Arg	Arg	Phe	Thr	His	Gln	Ser	Asp	Val	Trp	Ser	Tyr	Gly	Val	Thr	900	905	910
Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	Lys	Pro	Tyr	Asp	Gly	Ile	Pro	915	920	925
Ala	Arg	Glu	Ile	Pro	Asp	Leu	Leu	Glu	Lys	Gly	Glu	Arg	Leu	Pro	Gln	930	935	940
Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	945	950	955
Met	Ile	Asp	Ser	Glu	Cys	Arg	Pro	Arg	Phe	Arg	Glu	Leu	Val	Ser	Glu	965	970	975
Phe	Ser	Arg	Met	Ala	Arg	Asp	Pro	Gln	Arg	Phe	Val	Val	Ile	Gln	Asn	980	985	990
Glu	Asp	Leu	Gly	Pro	Ser	Ser	Pro	Met	Asp	Ser	Thr	Phe	Tyr	Arg	Ser	995	1000	1005
Leu	Leu	Glu	Asp	Asp	Asp	Met	Gly	Glu	Leu	Val	Asp	Ala	Glu	Glu	Tyr	1010	1015	1020
Leu	Val	Pro	Gln	Gln	Gly	Phe	Phe	Ser	Pro	Asp	Pro	Ala	Leu	Gly	Thr	1025	1030	1035
Gly	Ser	Thr	Ala	His	Arg	Arg	His	Arg	Ser	Ser	Ser	Ala	Arg	Ser	Gly	1045	1050	1055
Gly	Gly	Glu	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	Glu	Pro	Pro	1060	1065	1070
Arg	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser	Asp	Val	Phe	Asp	1075	1080	1085
Gly	Asp	Leu	Ala	Val	Gly	Val	Thr	Lys	Gly	Leu	Gln	Ser	Leu	Ser	Pro	1090	1095	1100
His	Asp	Leu	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	Glu	Asp	Pro	Thr	Leu	Pro	1105	1110	1115
Leu	Pro	Pro	Glu	Thr	Asp	Gly	Tyr	Val	Ala	Pro	Leu	Ala	Cys	Ser	Pro	1125	1130	1135
Gln	Pro	Glu	Tyr	Val	Asn	Gln	Pro	Glu	Val	Arg	Pro	Gln	Ser	Pro	Leu	1140	1145	1150
Thr	Pro	Glu	Gly	Pro	Pro	Pro	Pro	Ile	Arg	Pro	Ala	Gly	Ala	Thr	Leu	1155	1160	1165
Glu	Arg	Pro	Lys	Thr	Leu	Ser	Pro	Gly	Lys	Asn	Gly	Val	Val	Lys	Asp	1170	1175	1180
Val	Phe	Ala	Phe	Gly	Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Ala	Pro	1185	1190	1195
Arg	Ala	Gly	Thr	Ala	Ser	Gln	Pro	His	Pro	Ser	Pro	Ala	Phe	Ser	Pro	1205	1210	1215
Ala	Phe	Asp	Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asn	Ser	Ser	Glu	Gln	Gly	1220	1225	1230

